

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623kxg

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the
present
NEWS 4 AUG 05 New pricing for EUROPAFULL and PCTFULL effective
August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right
Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 DEC 08 INPADOC: Legal Status data reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 16 NOV 24 MSDS-CCOHS file reloaded
NEWS 17 DEC 08 CABA reloaded with left truncation
NEWS 18 DEC 08 IMS file names changed
NEWS 19 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 20 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS 21 DEC 17 DGENE: Two new display fields added
NEWS 22 DEC 18 BIOTECHNO no longer updated
NEWS 23 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 24 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 25 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields

NEWS EXPRESS NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:53:49 ON 22 DEC 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:53:59 ON 22 DEC 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 DEC 2003 HIGHEST RN 629597-20-2

DICTIONARY FILE UPDATES: 21 DEC 2003 HIGHEST RN 629597-20-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

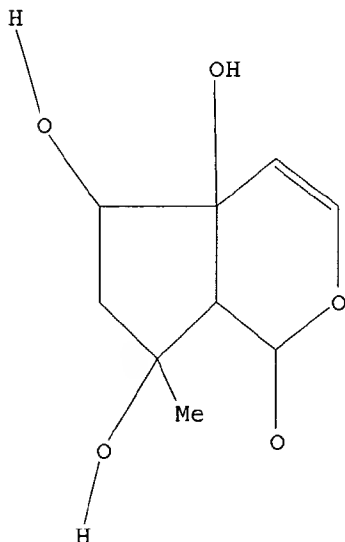
Uploading 09995691-3.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 10:54:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 853 TO ITERATE

100.0% PROCESSED 853 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

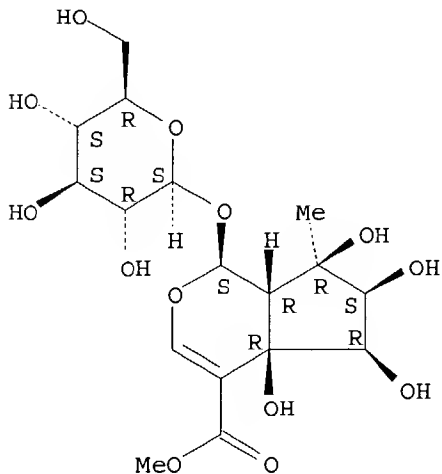
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 15308 TO 18812
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Cyclopenta[c]pyran-4-carboxylic acid, 1-(.beta.-D-glucopyranosyloxy)-
1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methyl-, methyl ester,
(1S,4aR,5R,6S,7R,7aR) - (9CI)
MF C17 H26 O13

Absolute stereochemistry. Rotation (-).

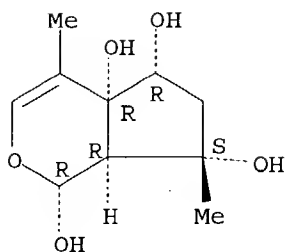


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN Cyclopenta[c]pyran-1,4a,5,7(1H)-tetrol, 5,6,7,7a-tetrahydro-4,7-dimethyl-,
[1R-(1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)
MF C10 H16 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 sss full
 FULL SEARCH INITIATED 10:55:07 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 17637 TO ITERATE

100.0% PROCESSED 17637 ITERATIONS 33 ANSWERS
 SEARCH TIME: 00.00.02

L3 33 SEA SSS FUL L1

=> file caplus
 COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	148.76

FILE 'CAPLUS' ENTERED AT 10:55:20 ON 22 DEC 2003
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 22 Dec 2003 VOL 139 ISS 26
 FILE LAST UPDATED: 21 Dec 2003 (20031221/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3 and (arthritis or osteoporosis or disc)
 165 L3
 31062 ARTHRITIS
 2 ARTHRITISES
 31062 ARTHRITIS
 (ARTHRITIS OR ARTHRITISES)
 12642 OSTEOPOROSIS
 12163 DISC
 2833 DISCS

14639 DISC

(DISC OR DISCS)

L4 4 L3 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)

=> dis l4 1-4 bib abs hitstr

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:799804 CAPLUS

DN 138:103853

TI In vitro propagation and iridoid analysis of the medicinal species
Harpagophytum procumbens and H. zeyheri

AU Levieille, G.; Wilson, G.

CS Department of Botany, University College Dublin, Dublin, Ire.

SO Plant Cell Reports (2002), 21(3), 220-225

CODEN: PCRPD8; ISSN: 0721-7714

PB Springer-Verlag

DT Journal

LA English

AB Exts. of the tubers of Harpagophytum procumbens DC (Devil's Claw) are used
widely for the relief of **arthritis**, lumbago and muscular pain.

The anti-inflammatory activity has been attributed to their iridoid
components. A two-step protocol was established for the in vitro
propagation of plants of Harpagophytum sp. by the regeneration of new
plantlets from nodal cuttings and their acclimatization to ex vitro
conditions. Single node cuttings were submitted to a root induction
treatment with .beta.-indoleacetic acid (5 days at 2 mg l⁻¹) followed by a
transfer to a phytohormone-free medium to promote root elongation and
support plantlet development. The new plantlets were weaned under
autotrophic conditions and subsequently acclimatized in a glasshouse where
they grew into fertile flowering plants that produced the characteristic
Devil's Claw fruits as well as tuberised roots. Anal. of the tuber tissue
of the micropropagated plants showed the presence of the iridoids
harpagoside and harpagide at concns. comparable with those found in the
wild plant material (1% dry wt.). The leaves were also found to contain
these iridoids, and therefore could potentially provide an alternative and
more sustainable source of therapeutically active compds. The application
of in vitro methods for the propagation of Devil's Claw would contribute
to the conservation of this species.

IT 6926-08-5, Harpagide

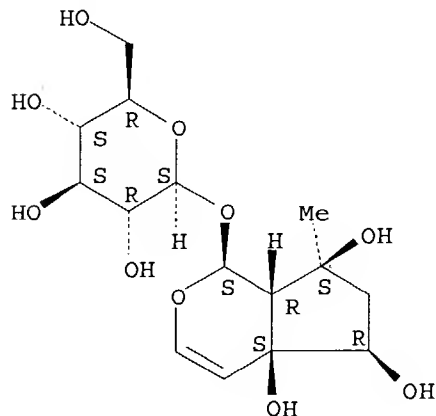
RL: NPO (Natural product occurrence); BIOL (Biological study); OCCU
(Occurrence)

(in vitro propagation and iridoid anal. of medicinal species
Harpagophytum procumbens and H. zeyheri)

RN 6926-08-5 CAPLUS

CN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:591953 CAPLUS
DN 137:159305
TI 2-O-(9Z,12Z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1''-6')-O-
 .beta.-D-galactopyranosyl]glycerol and pharmaceutical formulations
 containing it
IN Shin, Jun Shik; Kim, Sang Tae; Hahn, Yong Nam
PA Japan
SO Jpn. Kokai Tokkyo Koho, 30 pp.
 CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

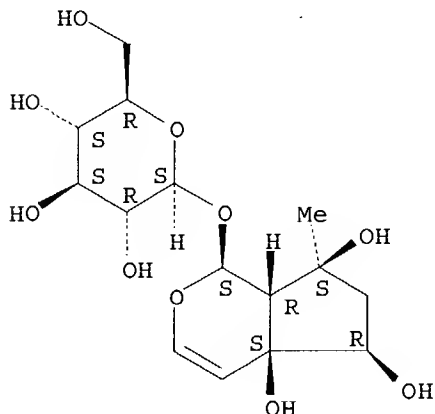
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002220400	A2	20020809	JP 2001-365399	20011129
	US 6531582	B1	20030311	US 2001-995617	20011129
PRAI	KR 2000-71438	A	20001129		

AB Pharmaceutical formulations for treatment of **osteoporosis**,
arthritis, or intervertebral disk hernia, contain
 2-O-(9Z,12Z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1''-6')-O-
 .beta.-D-galactopyranosyl]glycerol (I) or its esters as active
 ingredients. I (420 mg) was purified from an EtOH ext. of 1848 g Cibotium
 barometz root powder. Administration of I at 75 .mu.g/mL p.o. for 2 wk
 prevented mouse paw edema induced by Zymosan A and Freund's adjuvant.
 Formulation examples of injections, tablets, capsules, and liqs. contg. I
 or I acetate are given.

IT 6926-08-5, Harpagide
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (pharmaceuticals contg. octadecadienoyl(galactopyranosylgalactopyranosy
 l)glycerol for treatment of **osteoporosis**, **arthritis**
 , and intervertebral disk hernia)

RN 6926-08-5 CAPLUS
CN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:533182 CAPLUS
DN 137:88448
TI Use of harpagide-related compounds for prevention and treatment of

osteoporosis, arthritis, and intervertebral disk hernia,
 pharmaceutical compositions, and preparation of the compounds

IN Shin, Jun Sik; Kim, Sang-Tae; Hahn, Yong-Nam

PA S. Korea

SO Jpn. Kokai Tokkyo Koho, 29 pp.

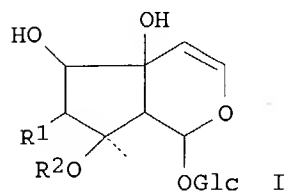
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002201136	A2	20020716	JP 2001-365400	20011129
	US 2002183264	A1	20021205	US 2001-995691	20011129
PRAI	KR 2000-71497	A	20001129		
OS	MARPAT 137:88448				
GI					



AB Harpagide-related compds. I (R1 = H, lower alkyl; R2 = H, cinnamoyl) are used for treatment or prevention of **osteoporosis, arthritis, and/or intervertebral disk diseases.** I (R1 = H, lower alkyl; R2 = cinnamoyl) are hydrolyzed to give I (R1 = H, lower alkyl; R2 = H). Harpagide (purified from Harpagophytum procumbens root) (at 75 .mu.g/kg/day p.o.) inhibited zymosan A- and Freund's adjuvant-induced rat paw edema. Formulation examples of injections, tablets, capsules, and liqs. contg. harpagide or harpagoside are given.

IT 6926-08-5P, Harpagide

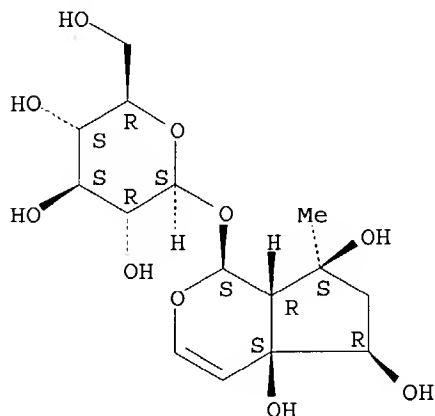
RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(harpagide-related compds. for prevention and treatment of **osteoporosis, arthritis, and intervertebral disk hernia**)

RN 6926-08-5 CAPLUS

CN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2001:31340 CAPLUS
 DN 134:95502
 TI Compositions and methods for treating or preventing **osteoporosis**
 IN Prince, Richard Lewis; Min, Xu
 PA University of Western Australia, Australia; Guangzhou University of
 Traditional Chinese Medicine
 SO PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001001996	A1	20010111	WO 2000-AU737	20000629
	WO 2001001996	C2	20020912		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI AU 1999-1273 A 19990629

AB The invention relates to a therapeutic compn. and method for treating **osteoporosis** and other calcium, and/or estrogen related disorders. Examples are given for treating **osteoporosis** with exts. of plants such as *Epimedium koreanum*, *Slavia miltiorrhiza*, *Asragalus membranaceus*, *Pueraria thomsonii*, and *Psoralea corylifolia*.

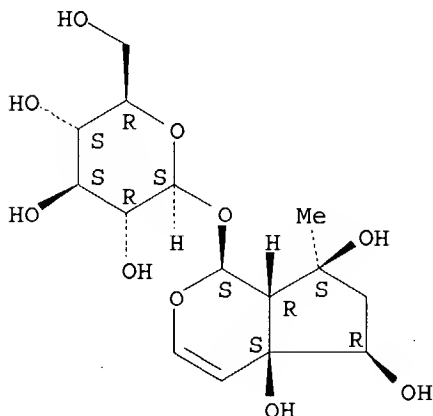
IT 6926-08-5, Harpagide

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (herb medicine exts. for treating or preventing **osteoporosis**)

RN 6926-08-5 CAPLUS

CN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	24.56	173.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.60	-2.60

FILE 'REGISTRY' ENTERED AT 10:56:54 ON 22 DEC 2003
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 21 DEC 2003 HIGHEST RN 629597-20-2
 DICTIONARY FILE UPDATES: 21 DEC 2003 HIGHEST RN 629597-20-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 6926-08-5

L5 1 6926-08-5
 (6926-08-5/RN)

=> s 15 and (arthritis or osteoporosis or disc)

273 ARTHRITIS
 0 OSTEOPOROSIS
 222 DISC
 18 DISCS
 239 DISC

(DISC OR DISCS)

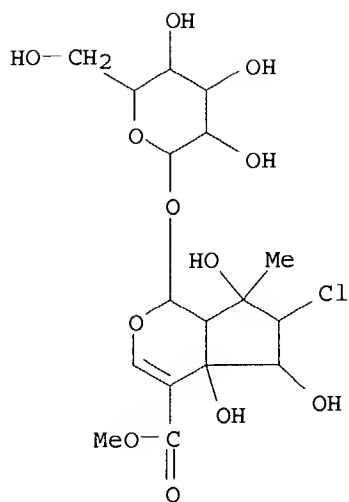
L6 0 L5 AND (ARTHRTIS OR OSTEOPOROSIS OR DISC)

=> d scan 13

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Cyclopenta[c]pyran-4-carboxylic acid, 6-chloro-1-(.beta.-D-
 glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methyl-,
 methyl ester, (1S,4aR,5S,6R,7R,7aS) - (9CI)

MF C17 H25 Cl O12



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

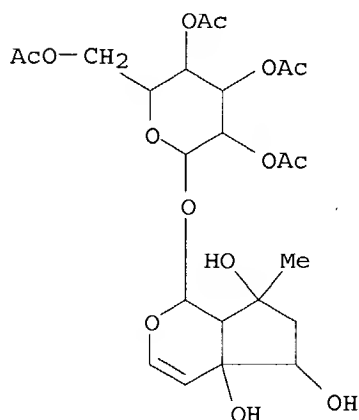
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2-33
'2-33' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".

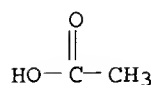
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl, 2,3,4,6,?,?-hexaacetate, [1S-(1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)
MF C27 H36 O16
CI IDS

CM 1

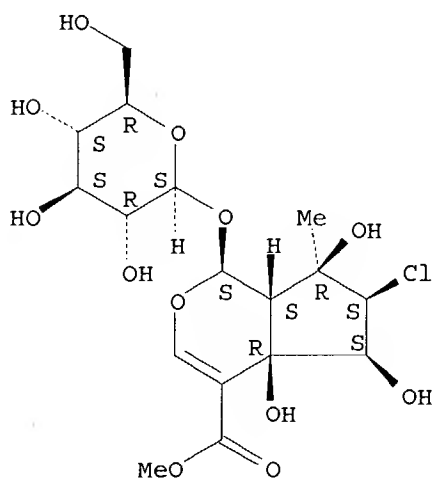


CM 2



L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 6-chloro-1-(.beta.-D-glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methyl-, methyl ester, (1S,4aR,5S,6S,7R,7aS) - (9CI)
 MF C17 H25 Cl O12

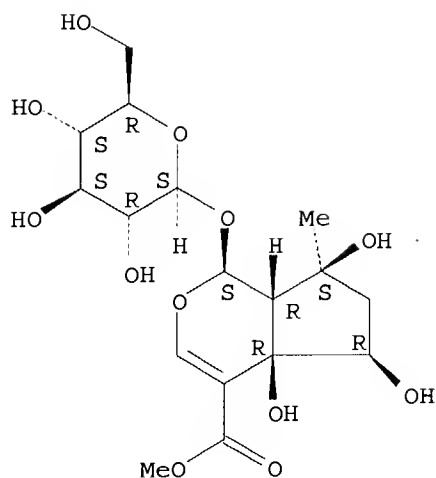
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 1-(.beta.-D-glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methyl-, methyl ester, (1S,4aR,5R,7S,7aR) - (9CI)
 MF C17 H26 O12

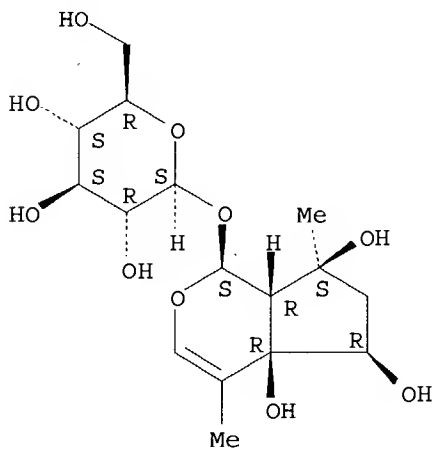
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aR,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,7-trihydroxy-4,7-dimethylcyclopenta[c]pyran-1-yl (9CI)
 MF C16 H26 O10

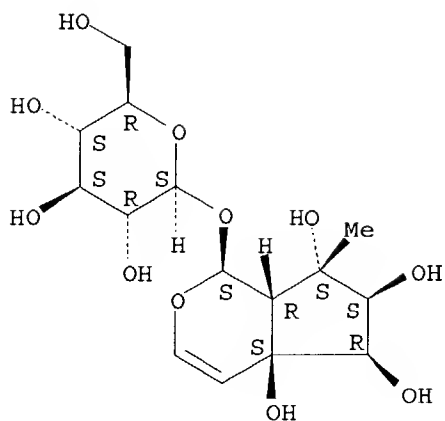
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5R,6S,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,6,7-tetrahydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
 MF C15 H24 O11

Absolute stereochemistry. Rotation (-).

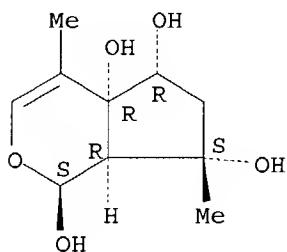


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-1,4a,5,7(1H)-tetrol, 5,6,7,7a-tetrahydro-4,7-dimethyl-,
 [1S-(1.alpha.,4a.beta.,5.beta.,7.beta.,7a.beta.)]- (9CI)
 MF C10 H16 O5

Absolute stereochemistry.

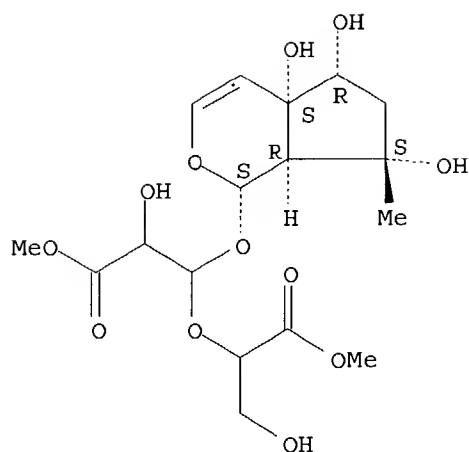


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Propanoic acid, 3-[[[(1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl]oxy]-2-hydroxy-3-[1-(hydroxymethyl)-2-methoxy-2-oxoethoxy]-, methyl ester (9CI)
 MF C17 H26 O12

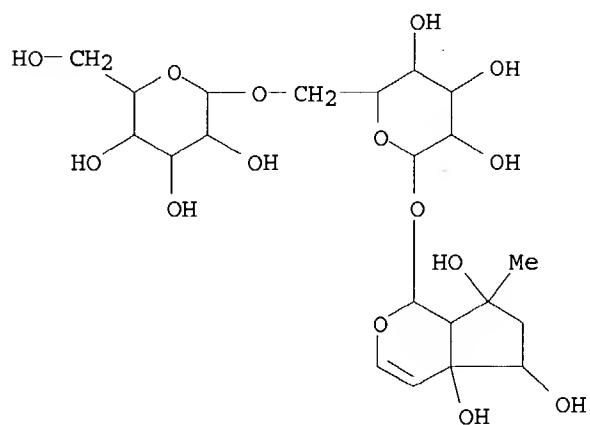
Absolute stereochemistry.

Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

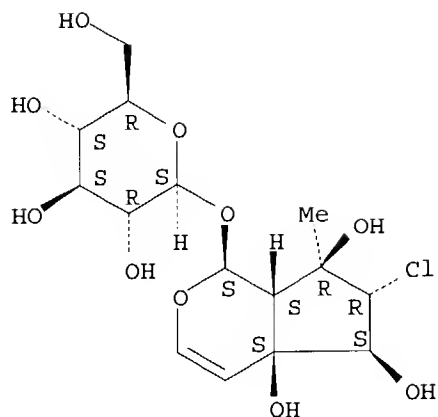
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl 6-O-.alpha.-D-glucopyranosyl-, [1S-(1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)
 MF C21 H34 O15



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5S,6R,7R,7aS)-6-chloro-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
 MF C15 H23 Cl O10

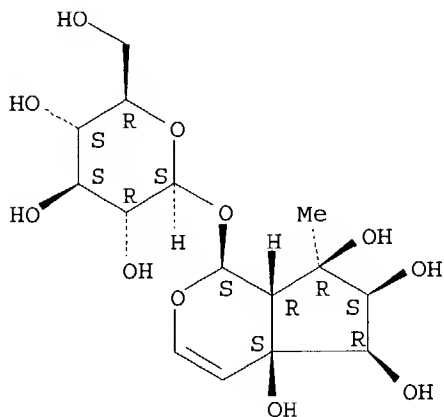
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5R,6S,7R,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,6,7-tetrahydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
 MF C15 H24 O11

Absolute stereochemistry. Rotation (-).

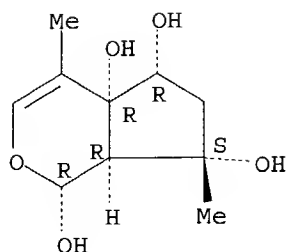


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-1,4a,5,7(1H)-tetrol, 5,6,7,7a-tetrahydro-4,7-dimethyl-,
 [1R-(1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)
 MF C10 H16 O5

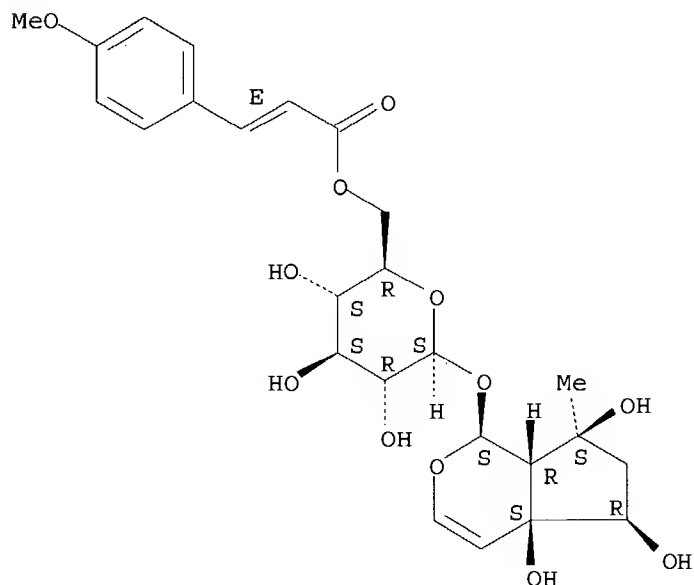
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

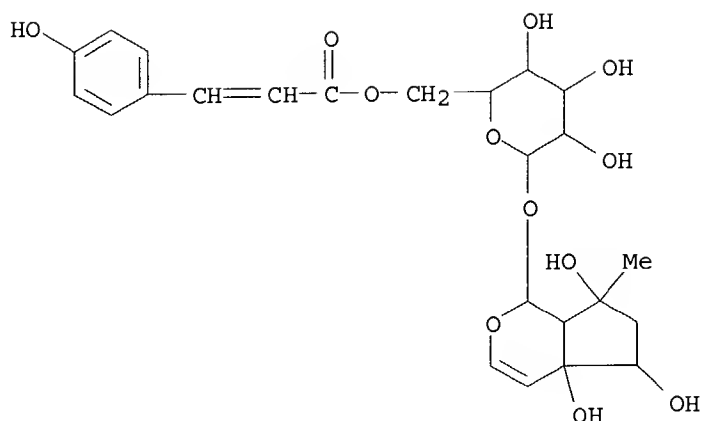
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl, 6-[(2E)-3-(4-
 methoxyphenyl)-2-propenoate] (9CI)
 MF C25 H32 O12

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

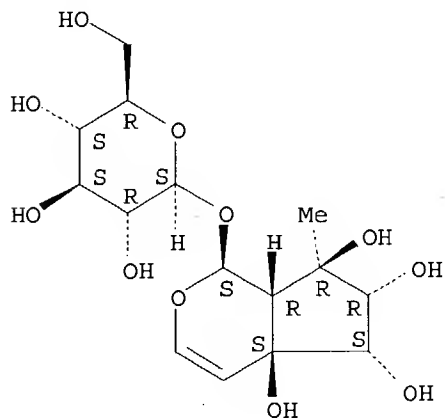
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-
 methylcyclopenta[c]pyran-1-yl, 6-[3-(4-hydroxyphenyl)-2-propenoate],
 [1S-[1.alpha.(E),4a.alpha.,5.alpha.,7.alpha.,7a.alpha.]]- (9CI)
 MF C24 H30 O12



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methylcyclopenta[c]pyran-1-yl, [1S-(1.alpha.,4a.alpha.,5.beta.,6.beta.,7.alpha.,7a.alpha.)]- (9CI)
 MF C15 H24 O11
 CI COM

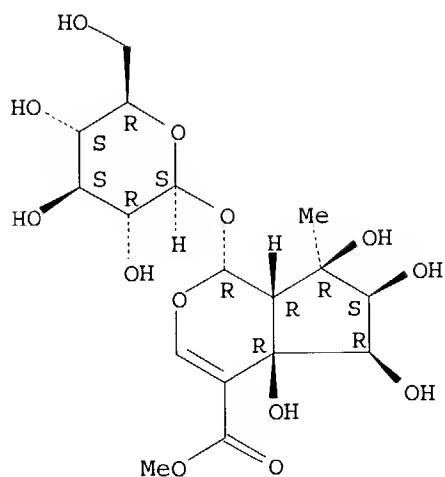
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 1-(.beta.-D-glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methyl-, methyl ester, (1R,4aR,5R,6S,7R,7aR)- (9CI)
 MF C17 H26 O13

Absolute stereochemistry.

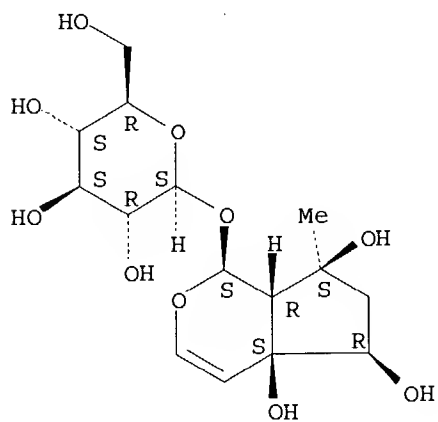


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

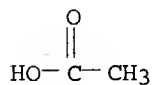
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl, monoacetate, [1S-(1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)
 MF C17 H26 O11
 CI IDS

CM 1

Absolute stereochemistry.



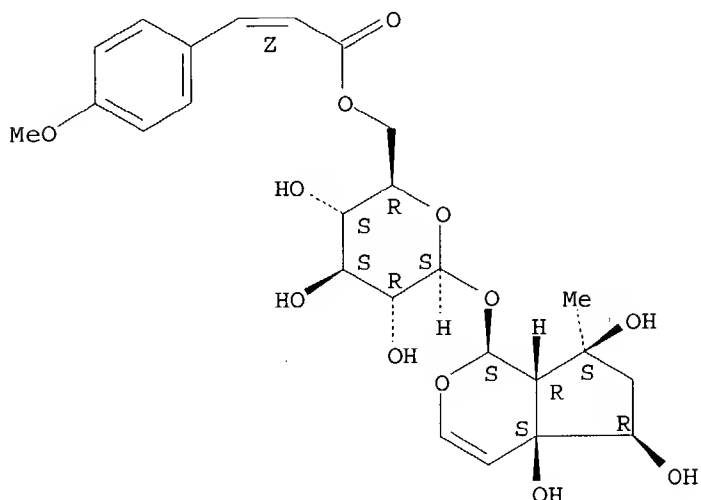
CM 2



L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl, 6-[(2Z)-3-(4-

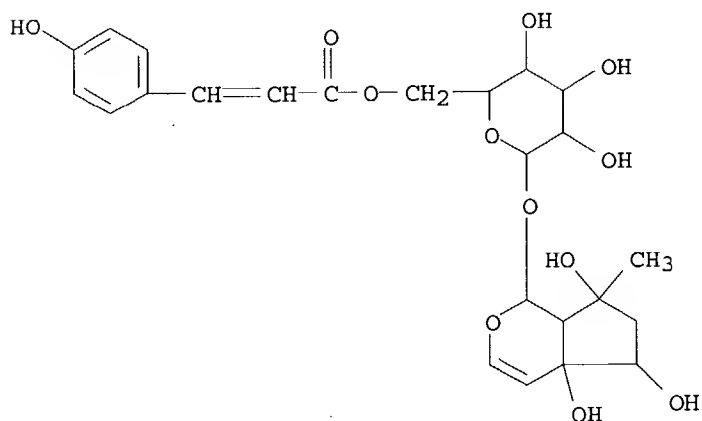
methoxyphenyl)-2-propenoate] (9CI)
 MF C25 H32 O12

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

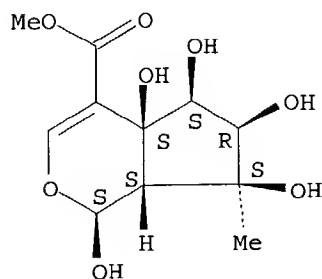
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-
 methylcyclopenta[c]pyran-1-yl, 6-[3-(4-hydroxyphenyl)-2-propenoate],
 [1S-[1.alpha.(Z),4a.alpha.,5.alpha.,7.alpha.,7a.alpha.]]- (9CI)
 MF C24 H30 O12



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 1,4a,5,6,7,7a-hexahydro-1,4a,5,6,7-
 pentahydroxy-7-methyl-, methyl ester, [1S-(1.alpha.,4a.alpha.,5.alpha.,6.a
 lpha.,7.alpha.,7a.alpha.]]- (9CI)
 MF C11 H16 O8

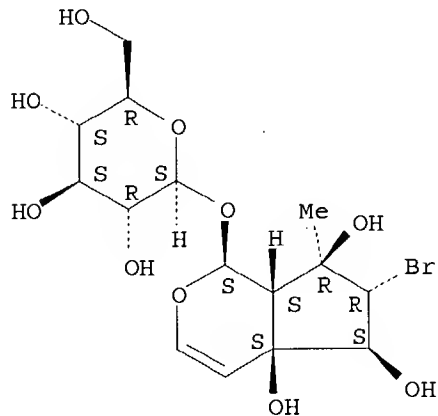
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN .beta.-D-Glucopyranoside, (1S,4aS,5S,6R,7R,7aS)-6-bromo-1,4a,5,6,7,7a-
hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
MF C15 H23 Br O10

Absolute stereochemistry.

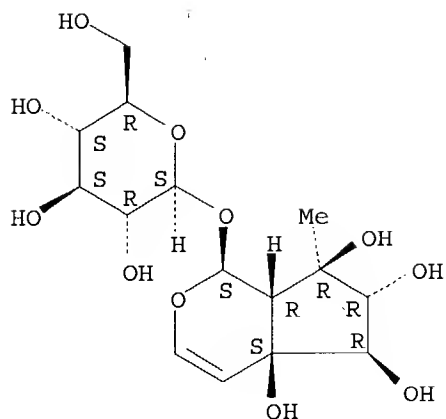


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):12

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN .beta.-D-Glucopyranoside, (1S,4aS,5R,6R,7R,7aR)-1,4a,5,6,7,7a-hexahydro-
4a,5,6,7-tetrahydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
MF C15 H24 O11

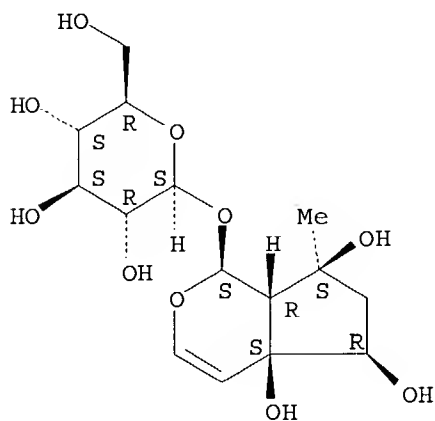
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
 MF C15 H24 O10
 CI COM

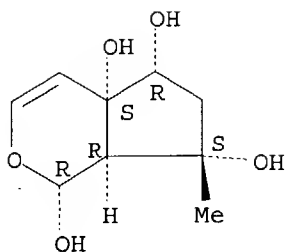
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-1,4a,5,7(1H)-tetrol, 5,6,7,7a-tetrahydro-7-methyl-,
 (1R,4aS,5R,7S,7aR) - (9CI)
 MF C9 H14 O5

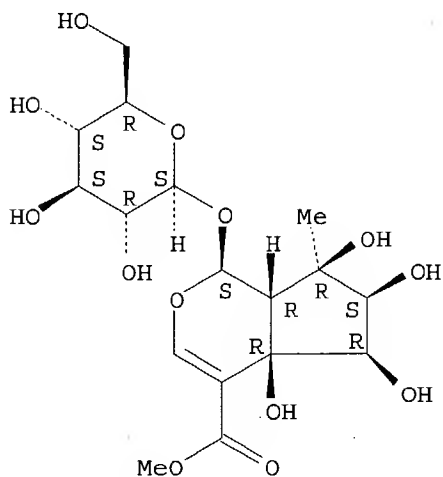
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 1-(.beta.-D-glucopyranosyloxy)-
 1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methyl-, methyl ester,
 (1S,4aR,5R,6S,7R,7aR) - (9CI)
 MF C17 H26 O13

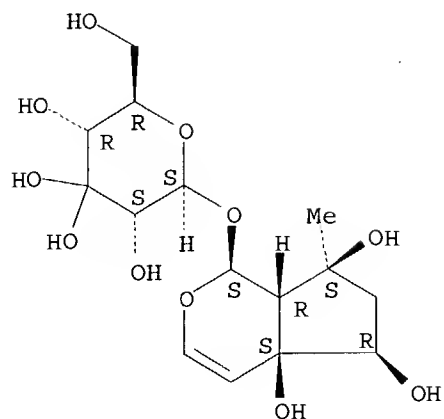
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-ribo-Hexopyranosid-3-ulose, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-
 hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl, 3-hydrate
 (9CI)
 MF C15 H24 O11

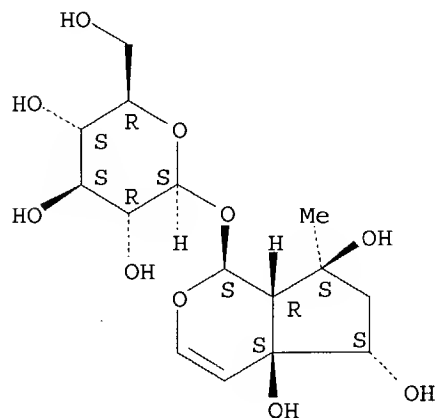
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, (1S,4aS,5S,7S,7aR)-1,4a,5,6,7,7a-hexahydro-
 4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
 MF C15 H24 O10

Absolute stereochemistry.

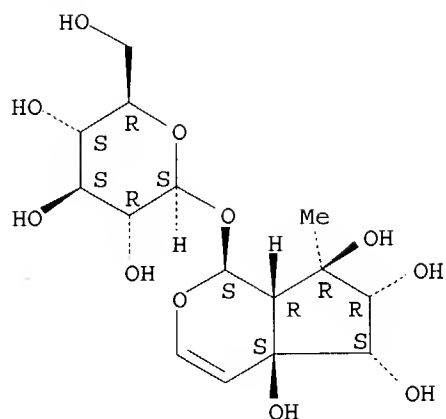


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

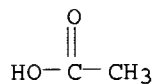
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-
 methylcyclopenta[c]pyran-1-yl, hexaacetate, [1S-
 (1.alpha.,4a.alpha.,5.beta.,6.beta.,7.alpha.,7a.alpha.)]- (9CI)
 MF C27 H36 O17
 CI IDS

CM 1

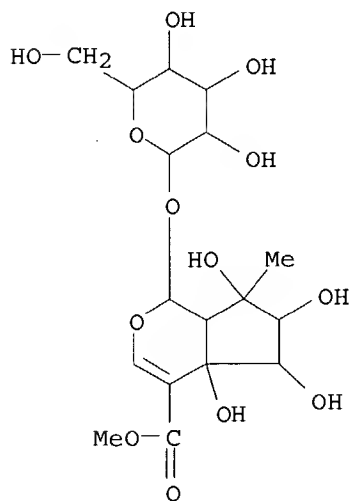
Absolute stereochemistry.



CM 2



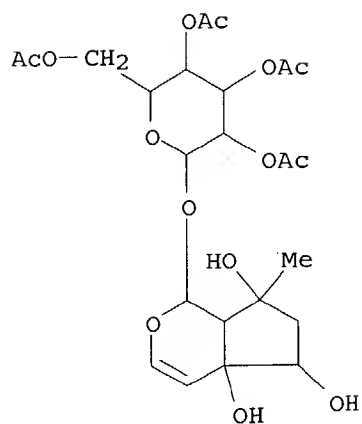
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN Cyclopenta[c]pyran-4-carboxylic acid, 1-(.beta.-D-glucopyranosyloxy)-
 1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methyl-, methyl ester,
 (1S,4aR,5R,6R,7R,7aR) - (9CI)
 MF C17 H26 O13



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-7-
 methylcyclopenta[c]pyran-1-yl, 2,3,4,6-tetraacetate, [1S-
 (1.alpha.,4a.alpha.,5.alpha.,7.alpha.,7a.alpha.)]- (9CI)

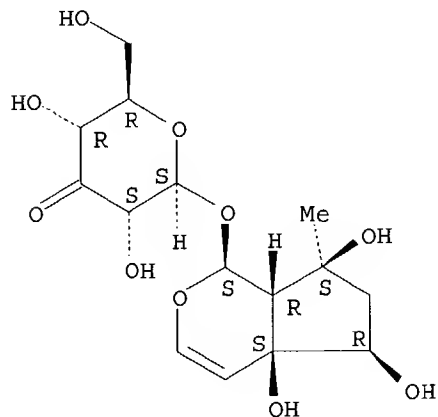
MF C23 H32 O14
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

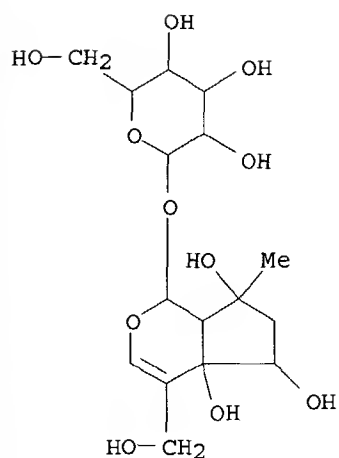
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN .beta.-D-ribo-Hexopyranosid-3-ulose, (1S,4aS,5R,7S,7aR)-1,4a,5,6,7,7a-
hexahydro-4a,5,7-trihydroxy-7-methylcyclopenta[c]pyran-1-yl (9CI)
MF C15 H22 O10

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,7-trihydroxy-4-
(hydroxymethyl)-7-methylcyclopenta[c]pyran-1-yl (9CI)
MF C16 H26 O11

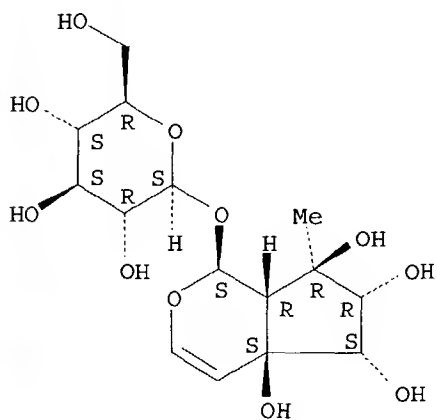


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

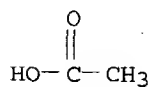
L3 33 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
 IN .beta.-D-Glucopyranoside, 1,4a,5,6,7,7a-hexahydro-4a,5,6,7-tetrahydroxy-7-methylcyclopenta[c]pyran-1-yl, heptaacetate, [1S-(1.alpha.,4a.alpha.,5.beta.,6.beta.,7.alpha.,7a.alpha.)]- (9CI)
 MF C29 H38 O18
 CI IDS

CM 1

Absolute stereochemistry.



CM 2



ALL ANSWERS HAVE BEEN SCANNED

=> s l3 and composition

7 COMPOSITION
2 COMPOSITIONS
9 COMPOSITION
(COMPOSITION OR COMPOSITIONS)

L7 0 L3 AND COMPOSITION

=> dis hist

(FILE 'HOME' ENTERED AT 10:53:49 ON 22 DEC 2003)

FILE 'REGISTRY' ENTERED AT 10:53:59 ON 22 DEC 2003

L1 STRUCTURE UPLOADED
L2 2 S L1 SSS SAM
L3 33 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:55:20 ON 22 DEC 2003

L4 4 S L3 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)

FILE 'REGISTRY' ENTERED AT 10:56:54 ON 22 DEC 2003

L5 1 S 6926-08-5
L6 0 S L5 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)
L7 0 S L3 AND COMPOSITION

=> file polymers

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
21.28	194.60

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-2.60

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FILE 'WP1INDEX' ENTERED AT 11:03:18 ON 22 DEC 2003
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FILE 'WTEXTILES' ENTERED AT 11:03:18 ON 22 DEC 2003
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=> s harpagide
L8 249 HARPAGIDE

=> s l8 and (arthritis or osteoporosis or disc)
L9 11 L8 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)

=> dis l9 1-11 bib abs

L9 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:799804 CAPLUS
DN 138:103853
TI In vitro propagation and iridoid analysis of the medicinal species
Harpagophytum procumbens and H. zeyheri
AU Levieille, G.; Wilson, G.
CS Department of Botany, University College Dublin, Dublin, Ire.
SO Plant Cell Reports (2002), 21(3), 220-225
CODEN: PCRPD8; ISSN: 0721-7714
PB Springer-Verlag
DT Journal
LA English
AB Exts. of the tubers of Harpagophytum procumbens DC (Devil's Claw) are used
widely for the relief of arthritis, lumbago and muscular pain.
The anti-inflammatory activity has been attributed to their iridoid
components. A two-step protocol was established for the in vitro
propagation of plants of Harpagophytum sp. by the regeneration of new
plantlets from nodal cuttings and their acclimatization to ex vitro
conditions. Single node cuttings were submitted to a root induction

treatment with .beta.-indoleacetic acid (5 days at 2 mg l-1) followed by a transfer to a phytohormone-free medium to promote root elongation and support plantlet development. The new plantlets were weaned under autotrophic conditions and subsequently acclimatized in a glasshouse where they grew into fertile flowering plants that produced the characteristic Devil's Claw fruits as well as tuberised roots. Anal. of the tuber tissue of the micropropagated plants showed the presence of the iridoids harpagoside and **harpagide** at concns. comparable with those found in the wild plant material (1% dry wt.). The leaves were also found to contain these iridoids, and therefore could potentially provide an alternative and more sustainable source of therapeutically active compds. The application of in vitro methods for the propagation of Devil's Claw would contribute to the conservation of this species.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:591953 CAPLUS

DN 137:159305

TI 2-O-(9Z,12Z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1''-6')-O-.beta.-D-galactopyranosyl]glycerol and pharmaceutical formulations containing it

IN Shin, Jun Shik; Kim, Sang Tae; Hahn, Yong Nam

PA Japan

SO Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002220400	A2	20020809	JP 2001-365399	20011129
	US 6531582	B1	20030311	US 2001-995617	20011129
PRAI	KR 2000-71438	A	20001129		

AB Pharmaceutical formulations for treatment of **osteoporosis**, **arthritis**, or intervertebral disk hernia, contain 2-O-(9Z,12Z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1''-6')-O-.beta.-D-galactopyranosyl]glycerol (I) or its esters as active ingredients. I (420 mg) was purified from an EtOH ext. of 1848 g Cibotium barometz root powder. Administration of I at 75 .mu.g/mL p.o. for 2 wk prevented mouse paw edema induced by Zymosan A and Freund's adjuvant. Formulation examples of injections, tablets, capsules, and liqs. contg. I or I acetate are given.

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:533182 CAPLUS

DN 137:88448

TI Use of **harpagide**-related compounds for prevention and treatment of **osteoporosis**, **arthritis**, and intervertebral disk hernia, pharmaceutical compositions, and preparation of the compounds

IN Shin, Jun Sik; Kim, Sang-Tae; Hahn, Yong-Nam

PA S. Korea

SO Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

DT Patent

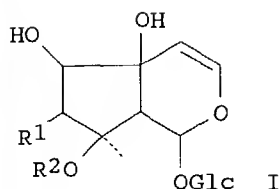
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002201136	A2	20020716	JP 2001-365400	20011129
	US 2002183264	A1	20021205	US 2001-995691	20011129
PRAI	KR 2000-71497	A	20001129		

OS MARPAT 137:88448

GI



AB **Harpagide**-related compds. I (R1 = H, lower alkyl; R2 = H, cinnamoyl) are used for treatment or prevention of **osteoporosis**, **arthritis**, and/or intervertebral disk diseases. I (R1 = H, lower alkyl; R2 = cinnamoyl) are hydrolyzed to give I (R1 = H, lower alkyl; R2 = H). **Harpagide** (purified from *Harpagophytum procumbens* root) (at 75 .mu.g/kg/day p.o.) inhibited zymosan A- and Freund's adjuvant-induced rat paw edema. Formulation examples of injections, tablets, capsules, and liqs. contg. **harpagide** or harpagoside are given.

L9 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:31340 CAPLUS

DN 134:95502

TI Compositions and methods for treating or preventing **osteoporosis**

IN Prince, Richard Lewis; Min, Xu

PA University of Western Australia, Australia; Guangzhou University of Traditional Chinese Medicine

SO PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001001996	A1	20010111	WO 2000-AU737	20000629
	WO 2001001996	C2	20020912		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI AU 1999-1273 A 19990629

AB The invention relates to a therapeutic compn. and method for treating **osteoporosis** and other calcium, and/or estrogen related disorders. Examples are given for treating **osteoporosis** with exts. of plants such as *Epimedium koreanum*, *Slavia miltiorrhiza*, *Asragalus membranaceus*, *Pueraria thomsonii*, and *Psoralea corylifolia*.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 11 IFIPAT COPYRIGHT 2003 IFI on STN

AN 03842228 IFIPAT;IFIUDB;IFICDB

TI 2-O-(9Z,12Z-OCTADECADIENOYL)-3-O-(ALPHA-D-GALACTOPYRANOSYL-(1''-6'))-O-ALPHA -D-GALACTOPYRANOSYL)GLYCEROL AND PHARMACEUTICAL COMPOSITION CONTAINING THE SAME

INF Han; Yong Nam, Seoul, KR

Kim; Sang Tae, Seoul, KR

Shin; Joon Shik, Hospital of Jaseng Oriental Medicine, 635, Shinsa-dong, Kangnam-ku, Seoul, KR

IN Han Yong Nam (KR); Kim Sang Tae (KR); Shin Joon Shik (KR)

PAF Shin; Joon Shik, Seoul, KR

PA Unassigned Or Assigned To Individual (68000)

EXNAM Henley, III, Raymond

AG Birch Stewart Kolasch & Birch LLP

PI US 6531582 B1 20030311

AI US 2001-995617 20011129

XPD 29 Nov 2021

PRAI KR 2000-71438 20001129

FI US 6531582 20030311

DT Utility

FS CHEMICAL

GRANTED

MRN 012334 MFN: 0870

CLMN 3

GI 17 Drawing Sheet(s), 27 Figure(s).

FIG. 1 shows (a) the flowchart of a process for recovering the dry weight of the pharmaceutical composition by extraction of the constituent drug with distilled water and an organic solvent, concentration under reduced pressure and lyophilization, and (b) the flowchart of the procedures for extracting the organic fraction according to the process for extracting the effective component.

FIG. 2 shows (a) the causal mechanism of invasion, (b) the invaded portions, and (c) the route for transmitting molecular biological signals of invasive process in joint at which **arthritis** as the typical one of bone diseases is invaded.

FIG. 3 shows the survival and cytomorphological appearance of synovial cells in joint portion at which **arthritis** as the typical chronic and degenerative bone diseases is invaded.

FIG. 4 shows the 70-days inhibitory effect on edema as one of chronic and degenerative osteopathological symptoms of **arthritis** by treating the induced edema with respective fractions obtained as the organic solvent fractions of the pharmaceutical composition in an amount of 75 μ g/ml for 2 weeks via oral route.

FIG. 5 shows the number and distribution pattern of CAM observed for 3 days by treating the fertilized egg with the effective component as the organic solvent extract in the concentration of 10 μ g/ml, incubating the egg in an incubator at 37 degrees C. for 2 days and then carefully injecting 5×10^3 synovial cells on CAM via syringe.

FIG. 6 is H/E tissue staining which shows the rupture extent of cartilaginous tissue after 70 days from the treatment of **arthritis**-induced animal with the water extract of the pharmaceutical composition at the concentration given in FIG. 9.

FIG. 7 is (a) a bar graph showing the inhibition of NO formation when Raw 264.7 cell lines are treated with the organic solvent fraction of a single drug of the pharmaceutical composition at the concentration of 10 μ g/ml for 24 hours and then stimulated with LPS, and (b) a bar graph showing the inhibition of NO formation when the cell lines treated with CBB fraction and LNE fraction as the organic solvent fractions are stimulated with LPS according to the same manner as above (a).

FIG. 8 shows (a) the induction pattern of apoptosis when Raw 264.7 cell lines are treated with the organic fraction of the effective component at the concentration of about 20 μ g/ml and then stimulated with LPS, and (b) the result of observing whether the synovial cells show the same pattern according to the same method as above (a).

FIG. 9 shows (a) the result of flow cytometry to determine the effect on cell cycle by treating Raw 264.7 cell lines with the organic fraction of the effective component at the concentration of about 20 μ g/ml and then stimulating with LPS and (b) the result of observing whether the synovial cells show the same appearance according to the same method as above (a).

FIG. 10 shows the inhibitory effect on the expression of COX-II enzyme protein as measured by SDS-PAGE electrophoresis when synovial cell lines are treated with the organic fraction of the effective component and then stimulated with LPS.

FIG. 11 shows the inhibitory effect on the synthesis of iNOS and COX-II enzymes as measured by RT-PCR when synovial cell lines are treated with the organic fraction of the effective component and then stimulated with

LPS, and the inhibitory effect of respective fractions on the synthesis of iNOS (b) and COX-II (c) enzymes according to the same method as above (a).

FIG. 12 shows the result obtained by labeling synovial cell lines with a secondary antibody FITC, allowing to stand the cells for about one hour while shading the light with a foil and then observing the cells under a fluorescence microscope, in order to examine whether the compound identified as the effective component in the pharmaceutical composition of the present invention can induce the inhibitory effect on COX-II expression in synovial cells in joint portion.

FIG. 13 is X-ray photograph to show the 70-days inhibitory effect on edema as one of chronic and degenerative osteopathological symptoms of **arthritis** by treating the induced edema with respective fractions obtained as the organic solvent fractions of the pharmaceutical composition in an amount of 75 μ g/ml for 2 weeks via oral route.

FIG. 14 is the result of computerized tomography (CT) to show the clinical improvement in an outpatient suffering from ruptured **disc** with the pharmaceutical composition of the present invention.

FIG. 15 is the result of magnetic resonance imaging (MRI) to show the clinical improvement in an outpatient suffering from ruptured **disc** with the pharmaceutical composition of the present invention.

FIG. 16 shows the presence of nogo-A with respect to the mechanism to induce vertebral neuroparalysis in an outpatient suffering from ruptured **disc**.

FIG. 17 shows a channel for blocking neurotransmission by raising the injury in oligodendrocyte present around the axon as the nervous portion concerned with a paralysis of neurotransmission.

FIG. 18 shows (a) a channel for blocking neurotransmission to brain cells as in case that the injury is raised in oligodendrocyte present around the axon as the nervous portion concerned with a paralysis of neurotransmission, (b) the recovery of neurotransmission by treating cells with NGF or CBB13/LNE-2 to regenerate neurite, which recovers the neurotransmission.

AB The present invention relates to the novel compound 2-O-(9z,12z octadecadienoyl)-3-O-(α -D-galactopyranosyl-(1''-6'))-O α -D-galactopyranosylglycerol (Generic name: shinbarometin) having the chemical structure represented by the following formula:

D R A W I N G

or its acetate having an excellent effect on **arthritis**, **osteoporosis** and ruptured **disc**, and to a pharmaceutical composition containing said compound as an effective component, in combination with a pharmaceutically acceptable auxiliary, diluent, isotonic agent, preservative, lubricant and solubilizing aid, which is formulated in the form of a pharmaceutically acceptable preparation and has a potent effect for **osteoporosis**, **arthritis** and ruptured **disc**.

CLMN 3

GI 17 Drawing Sheet(s), 27 Figure(s).

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FIG. 18 shows (a) a channel for blocking neurotransmission to brain cells as in case that the injury is raised in oligodendrocyte present around the axon as the nervous portion concerned with a paralysis of neurotransmission, (b) the recovery of neurotransmission by treating cells with NGF or CBB13/LNE-2 to regenerate neurite, which recovers the neurotransmission.

L9 ANSWER 6 OF 11 PASCAL COPYRIGHT 2003 INIST-CNRS. ALL RIGHTS RESERVED.
 on STN
 AN 2002-0594962 PASCAL
 CP Copyright .COPYRG. 2002 INIST-CNRS. All rights reserved.
 TIEN In vitro propagation and iridoid analysis of the medicinal species
 Harpagophytum procumbens and H. zeyheri
 AU LEVIEILLE G.; WILSON G.
 CS Department of Botany, University College Dublin, Belfield, Dublin,
 Ireland
 SO Plant cell reports : (Print), (2002), 21(3), 220-225, 15 refs.
 ISSN: 0721-7714 CODEN: PCRPD8
 DT Journal
 BL Analytic
 CY Germany, Federal Republic of
 LA English
 AV INIST-18737, 354000106592000060
 CP Copyright .COPYRG. 2002 INIST-CNRS. All rights reserved.
 AB Extracts of the tubers of Harpagophytum procumbens DC (Devil's Claw) are
 used widely for the relief of **arthritis**, lumbago and muscular
 pain. The anti-inflammatory activity has been attributed to their iridoid
 components. A two-step protocol was established for the in vitro
 propagation of plants of Harpagophytum sp. by the regeneration of new
 plantlets from nodal cuttings and their acclimatisation to ex vitro
 conditions. Single node cuttings were submitted to a root induction
 treatment with .beta.-indoleacetic acid (5 days at 2 mg l.sup.-.sup.1)
 followed by a transfer to a phytohormone-free medium to promote root
 elongation and support plantlet development. The new plantlets were
 weaned under autotrophic conditions and subsequently acclimatised in a
 glasshouse where they grew into fertile flowering plants that produced
 the characteristic Devil's Claw fruits as well as tuberised roots.
 Analysis of the tuber tissue of the micropropagated plants showed the
 presence of the iridoids harpagoside and **harpagide** at
 concentrations comparable with those found in the wild plant material (1%
 dry weight). The leaves were also found to contain these iridoids, and
 therefore could potentially provide an alternative and more sustainable
 source of therapeutically active compounds. The application of in vitro
 methods for the propagation of Devil's Claw would contribute to the
 conservation of this species.

L9 ANSWER 7 OF 11 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN
 AN 2002:937703 SCISEARCH
 GA The Genuine Article (R) Number: 614RL
 TI In vitro propagation and iridoid analysis of the medicinal species
 Harpagophytum procumbens and H-zeyheri
 AU Levieille G (Reprint); Wilson G
 CS Univ Coll Dublin, Dept Bot, Dublin 4, Ireland (Reprint)
 CYA Ireland
 SO PLANT CELL REPORTS, (OCT 2002) Vol. 21, No. 3, pp. 220-225.
 Publisher: SPRINGER-VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010 USA.
 ISSN: 0721-7714.
 DT Article; Journal
 LA English
 REC Reference Count: 15
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 AB Extracts of the tubers of Harpagophytum procumbens DC (Devil's Claw)
 are used widely for the relief of **arthritis**, lumbago and
 muscular pain. The anti-inflammatory activity has been attributed to their
 iridoid components. A two-step protocol was established for the in vitro

propagation of plants of Harpagophytum sp. by the regeneration of new plantlets from nodal cuttings and their acclimatisation to ex vitro conditions. Single node cuttings were submitted to a root induction treatment with beta-indoleacetic acid (5 days at 2 mg l⁻¹) followed by a transfer to a phytohormone-free medium to promote root elongation and support plantlet development. The new plantlets were weaned under autotrophic conditions and subsequently acclimatised in a glasshouse where they grew into fertile flowering plants that produced the characteristic Devil's Claw fruits as well as tuberised roots. Analysis of the tuber tissue of the micropropagated plants showed the presence of the iridoids harpagoside and **harpagide** at concentrations comparable with those found in the wild plant material (1% dry weight). The leaves were also found to contain these iridoids, and therefore could potentially provide an alternative and more sustainable source of therapeutically active compounds. The application of in vitro methods for the propagation of Devil's Claw would contribute to the conservation of this species.

L9 ANSWER 8 OF 11 USPATFULL on STN
 AN 2003:67836 USPATFULL
 TI 2-O-(9z,12z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1"-6')-O-.alpha.-D-galactopyranosyl]glycerol and pharmaceutical composition containing the same
 IN Shin, Joon Shik, Hospital of Jaseng Oriental Medicine, 635, Shinsa-dong, Kangnam-ku, Seoul, KOREA, REPUBLIC OF
 Kim, Sang Tae, Seoul, KOREA, REPUBLIC OF
 Han, Yong Nam, Seoul, KOREA, REPUBLIC OF
 PA Shin, Joon Shik, Seoul, KOREA, REPUBLIC OF (non-U.S. individual)
 PI US 6531582 B1 20030311
 AI US 2001-995617 20011129 (9)
 PRAI KR 2000-71438 20001129
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Henley, III, Raymond
 LREP Birch Stewart Kolasch & Birch LLP
 CLMN Number of Claims: 3
 ECL Exemplary Claim: 1
 DRWN 27 Drawing Figure(s); 17 Drawing Page(s)
 LN.CNT 971
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention relates to the novel compound 2-O-(9z,12z-octadecadienoyl)-3-O-[.alpha.-D-galactopyranosyl-(1"-6')-O-.alpha.-D-galactopyranosyl]glycerol (Generic name: shinbarometin) having the chemical structure represented by the following formula: ##STR1##

or its acetate having an excellent effect on **arthritis**, **osteoporosis** and ruptured **disc**, and to a pharmaceutical composition containing said compound as an effective component, in combination with a pharmaceutically acceptable auxiliary, diluent, isotonic agent, preservative, lubricant and solubilizing aid, which is formulated in the form of a pharmaceutically acceptable preparation and has a potent effect for **osteoporosis**, **arthritis** and ruptured **disc**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 11 USPATFULL on STN
 AN 2002:323098 USPATFULL
 TI Use of harpagid-related compounds for prevention and treatment of **osteoporosis**, **arthritis** and ruptured **disc** and pharmaceutical composition containing the same
 IN Shin, Joon Shik, Seoul, KOREA, REPUBLIC OF
 Kim, Sang Tae, Seoul, KOREA, REPUBLIC OF
 Han, Yong Nam, Seoul, KOREA, REPUBLIC OF
 PI US 2002183264 A1 20021205
 AI US 2001-995691 A1 20011129 (9)

PRAI KR 2000-71497 20001129
DT Utility
FS APPLICATION
LREP BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 17 Drawing Page(s)
LN.CNT 1078

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In the present invention, it is discovered that a compound of formula (I) has a potent effect for treatment of **osteoporosis, arthritis** and ruptured **disc**: ##STR1##

in which R.sub.1 represents hydrogen atom or alkyl group and R.sub.2 represents hydrogen atom or cinnamoyl group. Therefore, the compound of formula (I) can be used for prevention and treatment of **osteoporosis, arthritis** and ruptured **disc**.

Thus, the present invention provides a pharmaceutical preparation containing as an effective component a compound of formula (I) in combination with a pharmaceutically acceptable auxiliary, diluent, isotonic agent, preservative, lubricant and solubilizing aid, which is formulated in the form of a pharmaceutically acceptable preparation and has a potent effect for **osteoporosis, arthritis** and ruptured **disc**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 11 USPATFULL on STN
AN 2001:141886 USPATFULL
TI Harpagoside-enriched extract from harpagophytum procumbens and processes for producing same
IN Stumpf, Karl-Heinz, Karlsruhe, Germany, Federal Republic of
Jaggy, Hermann, Karlsruhe, Germany, Federal Republic of
Oschmann, Rainer, Landau, Germany, Federal Republic of
Koch, Egon, Karlsruhe, Germany, Federal Republic of
Simmet, Thomas, Bochum, Germany, Federal Republic of
PA Dr. Willmar Schwabe GmbH & Co., Karlsruhe, Germany, Federal Republic of (non-U.S. corporation)
PI US 6280737 B1 20010828
WO 9734565 19970925
AI US 1999-155043 19990222 (9)
WO 1997-DE591 19970321
19990222 PCT 371 date
19990222 PCT 102(e) date

PRAI DE 1996-19611221 19960321
DE 1996-19651290 19961210
DT Utility
FS GRANTED
EXNAM Primary Examiner: Lilling, Herbert J.
LREP McDonnell Boehnen Hulbert & Berghoff
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 313

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The disclosure relates to extracts from Harpagophytum procumbens with a high harpagoside content, to processes for producing them, such extracts containing no components capable of stimulating the synthesis of thromboxane B.sub.2 and cysteinylleucotrienes, and to pharmaceutical compositions containing such extracts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 11 WPINDEX COPYRIGHT 2003 THOMSON DERWENT on STN
AN 2003-010740 [01] WPINDEX

DNC C2003-002594
 TI A new compound, 2-O-(9z,12z-octadecadienyl)-3-O-(alpha-galactopyranosyl-(1'-6')-O-beta-D-galactopyranosyl)glycerol, useful for the treatment of **osteoporosis, arthritis, and extruded discs.**
 DC B02
 IN HAN, Y N; KIM, S T; SHIN, J S
 PA (SHIN-I) SHIN S; (SHIN-I) SHIN J S
 CYC 3
 PI KR 2002041837 A 20020605 (200301)* 1p
 JP 2002220400 A 20020809 (200305) 30p
 US 6531582 B1 20030311 (200321)
 ADT KR 2002041837 A KR 2000-71438 20001129; JP 2002220400 A JP 2001-365399
 20011129; US 6531582 B1 US 2001-995617 20011129
 PRAI KR 2000-71438 20001129
 AN 2003-010740 [01] WPINDEX
 AB KR2002041837 A UPAB: 20030101
 NOVELTY - Provided are novel 2-O-(9z,12z-octadecadienyl)-3-O-(alpha-galactopyranosyl-(1'-6')-O- beta -D-galactopyranosyl)glycerol (I) having excellent effects on **osteoporosis, arthritis, and extruded disc.**
 DETAILED DESCRIPTION - 2-O-(9z,12z-octadecadienyl)-3-O-(alpha-galactopyranosyl-(1'-6')-O- beta -D-galactopyranosyl)glycerol is represented by the following structural formula.
 An INDEPENDENT CLAIM is also included for a pharmaceutical preparation containing (I) it or its acetate and one of allendrate, tamoxifen, vitamin B3, parathyroid hormone, sulfasalazine, thioredoxin reductase, alendronate, raloxifene, calcitonin, estradiol, genistein, 1,25-dihydroxyvitamin D3, alendronate, estrogen receptor modulator, biphosphonates and **harpagide**, as active ingredients, and pharmaceutically acceptable excipients, diluents, adjuvants, preservatives, dissolution adjuvants.
 Dwg.1/10

=> dis hist

(FILE 'HOME' ENTERED AT 10:53:49 ON 22 DEC 2003)
 FILE 'REGISTRY' ENTERED AT 10:53:59 ON 22 DEC 2003
 L1 STRUCTURE UPLOADED
 L2 2 S L1 SSS SAM
 L3 33 S L1 SSS FULL
 FILE 'CAPLUS' ENTERED AT 10:55:20 ON 22 DEC 2003
 L4 4 S L3 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)
 FILE 'REGISTRY' ENTERED AT 10:56:54 ON 22 DEC 2003
 L5 1 S 6926-08-5
 L6 0 S L5 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)
 L7 0 S L3 AND COMPOSITION
 FILE 'APOLLIT, BABS, CAPLUS, CBNB, CEN, CIN, DISSABS, EMA, IFIPAT, JICST-EPLUS, PASCAL, PLASNEWS, PROMT, RAPRA, SCISEARCH, TEXTILETECH, USPATFULL, USPAT2, WPINDEX, WTEXTILES' ENTERED AT 11:03:18 ON 22 DEC 2003
 L8 249 S HARPAGIDE
 L9 11 S L8 AND (ARTHRITIS OR OSTEOPOROSIS OR DISC)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	63.54	258.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.60	-5.20

STN INTERNATIONAL LOGOFF AT 11:05:22 ON 22 DEC 2003